ABSTRACT

There is disclosed a digital filter combination for interpolating primary sample values (sp) of a sampled signal (sg) using an mth-order discrete-time filter (1) and a kth-order continuous time interpolation filter (2), with $m \geq 3$ and $k \geq 2$, wherein the discrete-time filter (1) forms n secondary sample values (ss) from at least m + 1 primary sample values (sp) at equal time intervals (T*; T/2), with $n \geq m$, and the continuous-time interpolation filter (2) forms from at least part of the n secondary sample values (ss) an interpolated value (st) whose temporal position with respect to that of the primary sample values (sp) is predeterminable by a normalized interpolating instant $dp = t_{in}/T$, where t_{in} is the absolute interpolating instant, and T is the period of the primary sampling rate.